IN THE CLAIMS

Please amend the claims as follows:

- (Currently Amended) A method for scheduling program units, the method comprising: starting a process within an operating system;
- starting at least one thread within the operating system, the thread associated with the process;
 - executing a plurality of streams within the thread:
- entering a kernel mode by a first stream of the plurality of streams upon the occurrence of a context shifting event; and
- if the first stream entering the kernel mode must block, then blocking the execution of the other streams of the plurality of streams.
- (Original) The method of claim 1, further comprising saving the context of each of the plurality of streams in a thread context data structure.
- (Original) The method of claim 2, wherein each of the streams are executed on a separate processor.
- (Original) The method of claim 1, wherein the context shifting event comprises an
 exception.
- 5. (Original) The method of claim 4 wherein the exception comprises a signal.
- (Original) The method of claim 1 wherein the context shifting event comprises a nonlocal goto.
- (Original) The method of claim 1, wherein the context shifting event comprises a system call.

Page 5 Dkt: 1376.718US1

8. (Currently Amended) A system for scheduling streams, the system comprising:

at least one multiple processor unit having a plurality of processors;

a memory coupled to the plurality of processors; and

an operating environment application executed by at least one of the processors from the memory and operable to perform the tasks of:

start starting a process within an operating system,

start starting at least one thread within the operating system, the thread associated with the process;

execute executing a plurality of streams within the thread,

enter entering a kernel mode by a first stream of the plurality of streams upon the occurrence of a context shifting event, and

if the first stream <u>entering the kernel mode</u> must block, then blocking the execution of the other streams of the plurality of streams.

- (Original) The system of claim 8, further comprising saving the context of each of the plurality of streams in a thread context data structure.
- 10. (Original) The system of claim 9, wherein each of the streams are executed on a separate processor of the multiple processor unit.
- 11. (Original) The system of claim 8, wherein the context shifting event comprises an exception.
- 12. (Original) The system of claim 11 wherein the exception comprises a signal.
- (Original) The system of claim 8 wherein the context shifting event comprises a non-local goto.
- (Original) The system of claim 8, wherein the context shifting event comprises a system call.

Page 6 Dkt: 1376.718US1

15. (Currently Amended) A computer-readable media having computer executable instructions for performing a method for scheduling program units, the method comprising: starting a process within an operating system;

starting at least one thread within the operating system, the thread associated with the process:

executing a plurality of streams within the thread;

entering a kernel mode by a first stream of the plurality of streams upon the occurrence of a context shifting event; and

if the first stream entering the kernel mode must block, then blocking the execution of the other streams of the plurality of streams.

- 16. (Original) The computer-readable media of claim 15, further comprising saving the context of each of the plurality of streams in a thread context data structure.
- 17. (Original) The computer-readable media of claim 16, wherein each of the streams are executed on a separate processor.
- 18. (Original) The computer-readable media of claim 15, wherein the context shifting event comprises an exception.
- 19. (Original) The computer-readable media of claim 18 wherein the exception comprises a signal.
- 20. (Original) The computer-readable media of claim 15 wherein the context shifting event comprises a non-local goto.
- 21. (Original) The computer-readable media of claim 15, wherein the context shifting event comprises a system call.